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SAFETY INFORMATION

The installation of the Blancett FloClean repair kits must comply with all applicable federal, state, and local rules, regulations and codes.

Failures to read and follow these instructions can lead to misapplication or misuse of the Blancett FloClean repair kits, resulting in personal injury and damage to equipment.

Safety Symbol Explanations



Indicates a hazardous situation, which, if not avoided, is estimated to be capable of causing death or serious personal injury.



Indicates a hazardous situation, which, if not avoided, could result in severe personal injury or death.



Indicates a hazardous situation, which, if not avoided, is estimated to be capable of causing minor or moderate personal injury or damage to property.

UNPACKING & INSPECTION

Upon opening the shipping container, visually inspect the product and applicable accessories for any physical damage such as scratches, loose or broken parts, or any other sign of damage that may have occurred during shipment.

NOTE: If damage is found, request an inspection by the carrier's agent within 48 hours of delivery and file a claim with the carrier. A claim for equipment damage in transit is the sole responsibility of the purchaser.

INTRODUCTION

The FloClean turbine flow meter is designed with wear resistant moving parts to provide trouble free operation and long service life. The kit allows easy field repair of a damaged flow meter, rather than replacing the entire flow meter. Repair parts are constructed of stainless steel alloy and tungsten carbide.

Each FloClean repair kit is factory calibrated for accuracy throughout the entire flow range. Each kit is complete and includes a new K-factor, which is the calibrated number of pulses generated by each gallon of liquid. This K-factor is used to recalibrate the monitor or other electronics to provide accurate output data.

PART INFORMATION

B16A Series (NDA)

Ferrule Size	Repair Kit Fits Meter Part Number	Repair Kit Part Number
0.984 in.	B16A-003A-XXX	B16C-K03A
0.984 in.	B16A-005A-XXX	B16C-K05A
0.984 in.	B16A-007A-XXX	B16C-K07A
1.984 in.	B16A-105A-XXX	B16C-K05A
1.984 in.	B16A-107A-XXX	B16C-K07A
1.984 in.	B16A-108A-XXX	B16C-K08A
1.984 in.	B16A-110A-XXX	B16C-K10A
1.984 in.	B16A-115A-XXX	B16C-K15A
3.047 in.	B16A-220A-XXX	B16C-K20A

B16C/B16N Series (COP/SOP)

Ferrule Size	Repair Kit Fits Meter Part Number		Repair Kit Part Number
0.984 in.	B16C-003A-XXX	B16N-003A-XXX	B16C-K03A
0.984 in.	B16C-005A-XXX	B16N-005A-XXX	B16C-K05A
0.984 in.	B16C-007A-XXX	B16N-007A-XXX	B16C-K07A
1.984 in.	B16C-105A-XXX	B16N-105A-XXX	B16C-K05A
1.984 in.	B16C-107A-XXX	B16N-107A-XXX	B16C-K07A
1.984 in.	B16C-108A-XXX	B16N-108A-XXX	B16C-K08A
1.984 in.	B16C-110A-XXX	B16N-110A-XXX	B16C-K10A
1.984 in.	B16C-115A-XXX	B16N-115A-XXX	B16C-K15A
3.047 in.	B16C-220A-XXX	B16N-220A-XXX	B16C-K20A

B16D Series

Ferrule Size	Repair Kit Fits Meter Part Number	Repair Kit Part Number
0.984 in.	B16D-003A-XXX	B16D-K03A
0.984 in.	B16D-005A-XXX	B16D-K05A
0.984 in.	B16D-007A-XXX	B16D-K07A
1.984 in.	B16D-105A-XXX	B16D-K05A
1.984 in.	B16D-107A-XXX	B16D-K07A
1.984 in.	B16D-108A-XXX	B16D-K08A
1.984 in.	B16D-110A-XXX	B16D-K10A
1.984 in.	B16D-115A-XXX	B16D-K15A
3.047 in.	B16D-220A-XXX	B16D-K20A

TURBINE METER REMOVAL

⚠ WARNING

HIGH-PRESSURE LEAKS ARE DANGEROUS AND CAUSE PERSONAL INJURY. MAKE SURE THAT FLUID FLOW HAS BEEN SHUT OFF AND PRESSURE IN THE LINE RELEASED BEFORE ATTEMPTING TO REMOVE THE METER.

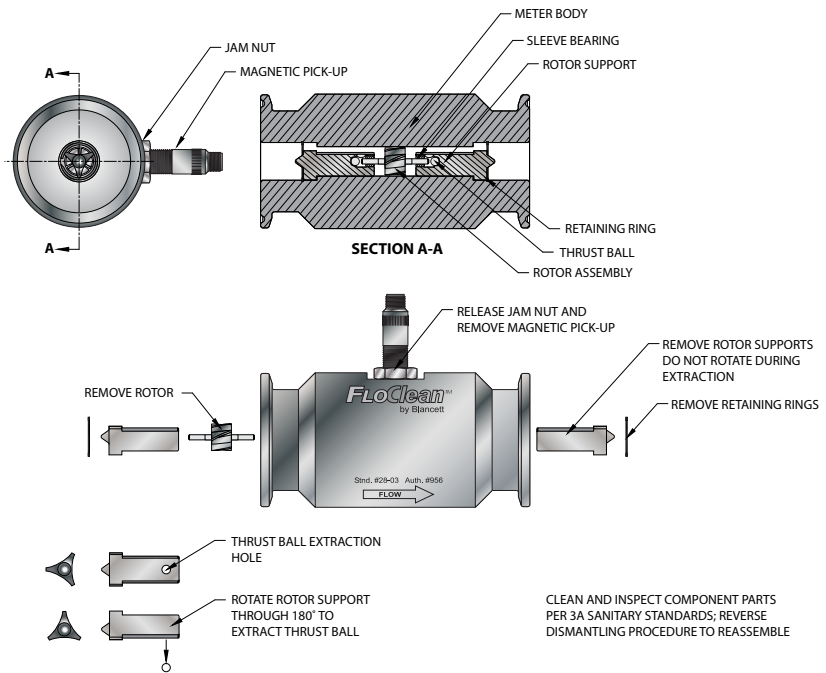


Figure 1: Service procedure for B16C Series FloClean meters

Disassembly

See Figure 1 for relative positions of repair kit components.

1. Remove the magnetic pickup from the meter body to avoid damage during repair.
2. Remove the retaining ring from one end of the meter.
3. Remove the rotor support from the body. If the rotor support is jammed in the body, use a pair of pliers or vice grips to break the rotor support free.
4. Remove the rotor assembly.
5. Remove the second retaining ring from the opposite side of the meter.
6. Remove the remaining rotor support from the body. If the rotor support is jammed in the body, use a pair of pliers or vice grips to break the rotor support free.
7. Discard rotor, rotor supports, thrust balls and retaining rings.

Cleaning

See *Figure 1 on page 5* for pictorial view.

1. Remove the magnetic pickup from the meter body to avoid damage during procedure.
2. Remove the retaining ring from one end of the meter.
3. Keeping the meter upright (pickup port at the top), remove the rotor support from the body taking care not to rotate it in the process. If the rotor support is jammed in the body, use a pair of pliers or vice grips to break it free.
4. Hold the rotor support over a suitable container and rotate it 180°; the thrust ball will drop out. Take care not to lose the ball.
5. Remove the rotor assembly.
6. Remove the second retaining ring from the opposite side of the meter.
7. Repeat steps 3 and 4 for the remaining rotor support.
8. Identify parts and flow direction to match with original meter body.
9. Clean the meter to meet your standards before installation.

INSTALLATION

IMPORTANT

Before reassembly, note there are weep holes on each rotor support, these weep holes must be facing down toward the bottom of the meter body when installed.

The meter must be reassembled with the arrows on the rotor pointed in the direction of fluid flow. The magnetic pickup side of the body signifies the up position. This is the position that the repair kit was calibrated, and this is the position to be used for meter accuracy. Due to the polished surfaces, there are no arrows on the rotor support to indicate which rotor support is to be placed upstream or downstream. Install the repair kit as it was received in the box, using the arrow on the rotor to determine the placement of the rotor support.

Each FloClean repair kit has been cleaned at the factory and handled with care. Clean the meter to your standards before installation.

1. Drop a thrust ball into a rotor support through the hole provided in the side. Insert rotor support into the meter body. Keep the thrust bearing hole pointed upwards to keep the ball in place.
2. Secure a retaining ring in the groove provided. Be sure that the retaining ring is completely installed in the groove.
3. Drop a thrust ball into second rotor support through the hole provided in the side. Locate the rotor in the support sleeve bearing. Insert rotor support and rotor into the meter body and the first support sleeve bearing. Keep the thrust bearing hole pointed upwards to keep the ball in place.
4. Secure the second retaining ring in the groove provided. Be sure that the retaining ring is completely installed in the groove.
5. Check the meter by blowing air through the assembly. If the rotor does not turn freely, the meter should be disassembled and checked for anything that would obstruct movement of the rotor.
6. Install the magnetic pickup.

CAUTION

EXCESS AIR PRESSURE MAY DAMAGE THE ROTOR AND BEARINGS BY OVERSPINNING.

NOTE: The electronics will need recalibration after installation of the repair kit.

Control. Manage. Optimize.

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